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>Title: CN1055185A: WATER-ABSORPTION MATERIAL PRODUCED BY GR
MODIFICATION WITH CELLULOSE INITIATED BY POTASSIUM
PERMANGANATE

Derwent Title: Water-absorption material for agriculture and forestry - is prepd. by grafting microcrystalline cellulose initiated by potassium permanganate in acidic medium NoAbstract [\[Derwent Record\]](#)

**Country:** CN China**Kind:** A Unexamined APPLIC. open to Public inspection ⁱ**Inventor:** YANG SHUYING; China
ZHANG ZHENYA; China**Assignee:** GUANGZHOU CHEMICAL RESEARCH INST., CHINESE ACADEMY OF SCIENCES China
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Core: C08F 251/00; D06M 14/00;
IPC-7: C08F 251/02;**ECLA Code:** None**Priority Number:** 1990-03-24 CN19909090101692

Abstract: The water-absorbent material prepared by graft reaction of cellulose with olefine monomers such as acrylonitrile, mostly adopts cerium salt as initiator. Although the grafting efficiency is high, but it is expensive. This invention provides a method in which potassium permanganate is used in acidic medium to replace cerium salt as initiator so that a fibrous water-absorbent material can be obtained by graft reaction of cotton fibre or artificial fibre, and a powdery water-absorbent material is obtained by grafting of microcrystalline cellulose. The water-absorbent material provided by this invention can quickly absorb non-ionic water by over 20-200 fold, and after water absorption it has a high gelatinating strength, not liable to break, and a strong water-retaining capacity. It is suitable for water-retaining agent in agriculture and forestry, as well as for sanitary material.

Family:

Buy PDF	Publication	Pub. Date	Filed	Title
				WATER-ABSORPTION MATERIAL PROD

	CN1055185A	1991-10-09	1990-03-24	GRAFT MODIFICATION WITH CELLULOSE INITIATED BY POTASSIUM PERMANGATE
1 family members shown above				

Other Abstract

None

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